	•		\sim
	Application No.	Applicant(s)	 0
	09/845,480	QUEL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Lynette T. Umez-Eronini	1765	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	'S IS (OR REMAINS) CLOSED in this L-85) or other appropriate communic NT RIGHTS. This application is subje	s application. If not included ation will be mailed in due co	ourse. THIS
1. \boxtimes This communication is responsive to <u>5/13/04</u> .	,		
2. ⊠ The allowed claim(s) is/are <u>1-10</u> .		•	
3. $igotimes$ The drawings filed on <u>30 April 2001</u> are accepted by	the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign prior a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priori International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	have been received. have been received in Application N	o	on from the
Applicant has THREE MONTHS FROM THE "MAILING DANGE THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draft	sperson's Patent Drawing Review (F	PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _			
(b) ☐ including changes required by the attached Exan Paper No./Mail Date	niner's Amendment / Comment or in t	the Office action of	
Identifying indicia such as the application number (see 37 of each sheet. Replacement sheet(s) should be labeled as such	CFR 1.84(c)) should be written on the d	rawings in the front (not the b	ack) of
7. DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREM	deposit of BIOLOGICAL MATERI	AL must be submitted. No	ite the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	nal Patent Application (PTO-	·152)
2. Notice of Draftperson's Patent Drawing Review (PTO-			
3. Information Disclosure Statements (PTO-1449 or PTC	·	il Date <u>6/8/2004</u> . endment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Dep	osit 8. 🛛 Examiner's Sta	tement of Reasons for Allow	/ance
of Biological Material	9. Other		
	SUF	NADINE G. NORTON PERVISORY PATENT EXA	MINER

Application/Control Number: 09845480

Art Unit: 1765

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rosemary Pike on June 8, 2004.

The application has been amended as follows:

In claim 3, line 2, delete [HOSP, SILK, FLARE,] and [(BCB)];

In claim 3, line 3, delete [(MSQ)];

In claim 4, line 2, delete [CORAL, BLACK DIAMOND,] and [(FSG)];

In claim 4, line 3, after "carbon-doped" delete [FSG] then insert in its place -- fluorinated silicate glass--;

In claim 4, line 3, after "nitrogen-doped" delete [FSG, Z3MS, XLK] then insert in its place --fluorinated silicate glass--;

In claim 4, line 3, delete [HSQ)];

In claim 8, line 2, delete [HOSP, SILK, FLARE,] and [(BCB)];

In claim 8, line 3, delete [(MSQ)];

In claim 9, line 2, delete [CORAL, BLACK DIAMOND,] and [(FSG)];

In claim 9, lines 2-3, after "carbon-doped" delete [FSG], then insert --fluorinated silicate glass--;

Application/Control Number: 09845480

Art Unit: 1765

In claim 9, line 3, after "nitrogen-doped" delete [FSG, Z3MS, XLK] then insert in its place --fluorinated silicate glass--;

In claim 9, line 3, delete [(HSQ)].

2. The following is an examiner's statement of reasons for allowance:

As to claims 1-5, the prior art of record taken alone or in combination fails to teach, suggest, or render obvious the sequence of steps in a method of forming dual damascene opening in the fabrication of an integrated circuit device, in combination with the rest of the limitations of the above claims

As to claims 6-10, applicants have presented persuasive arguments (see pages 6-9 of Remarks filed 1/29/2004) to show the prior art of record taken alone or in combination fails to teach, suggest, or render obvious etching a via pattern into said organic dielectric layer through said trench pattern of an inorganic dielectric layer, in a sequence of steps in a method of forming dual damascene openings in the fabrication of an integrated circuit device, in combination with the rest of the limitations of the above claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09845480

Art Unit: 1765

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lynette T. Umez-Eronini whose telephone number is

571-272-1470. The examiner is normally unavailable on the First Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nadine Norton can be reached on 571-272-1465.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Itue

June 8, 2004

NADINE G. NORTON SUPERVISORY PATENT EXAMINER Mad Mort Page 4